

Information Technology Skills

March 2023



Knowing the Code

Information Technology occupations are some of the most in-demand occupations in Missouri. Computer and Mathematical occupations employed more than 80,000 people with an average wage of \$83,150 in 2021 (2021 Occupational Employment and Wage Statistics estimates). Employment in Information Technology occupations is projected to grow by 14.2 percent from 2020-2030 (MERIC Long-Term Employment Projections).

From Feb. 1, 2022, to Jan. 31, 2023, there were over 76,000 online job ads for Computer and Mathematical occupations (Lightcast). Software development and programming skills are highly valued in these occupations. The majority of job ads for these occupations requested proficiency in various computer programming languages. The top requested programming languages include SQL, Java, and Python. These language skills are also most commonly found in job ads for Software Developers and Computer Systems Analysts.

Top 20 Software and Programming Skills Requested in IT Occupations

Skill	Skill Cluster	Online Job Ads
SQL	SQL Databases and Programming	17,650
Software Development	Software Development Principles	13,590
Java	Java	12,320
Software Engineering	Software Development Principles	11,250
Python	Scripting Languages	11,130
JavaScript	JavaScript and jQuery	8,440
Linux	Operating Systems	7,090
Oracle	Oracle	6,840
Scrum	Software Development Principles	6,510
Git	Version Control	5,810
Microsoft C#	Microsoft Development Tools	5,570
Atlassian JIRA	Software Quality Assurance	5,300
Agile Development	Software Development Principles	4,630
Microsoft Azure	Cloud Solutions	3,830
SQL Server	SQL Databases and Programming	3,750
Debugging	Programming Principles	3,560
Systems Development Life Cycle (SDLC)	System Design and Implementation	3,510
UNIX	Operating Systems	3,020
.NET	Microsoft Development Tools	3,000
Extensible Markup Language (XML)	Extensible Languages	2,970

Source: Lightcast, online job ads Feb. 1, 2022 – Jan. 31, 2023

Who's Hiring?

Top Industries		Job Postings	Top Employers
NAICS Code	Industry Title		
541	Professional, Scientific, & Technical Services	9,240	Edward Jones
336	Transportation Equipment Manufacturing	4,570	The Boeing Company
523	Securities, Commodity Contracts, & Other Financial Investments	4,310	Deloitte
524	Insurance Carriers & Related Activities	4,020	General Dynamics
522	Credit Intermediation & Related Activities	3,200	MasterCard Worldwide
611	Educational Services	2,130	Charter Communications
622	Hospitals	1,480	Centene Corporation
511	Publishing Industries (except Internet)	1,190	Humana
325	Chemical Manufacturing	1,020	Wells Fargo
928	National Security & International Affairs	1,000	Accenture

Source: Lightcast, online job ads Feb. 1, 2022 – Jan. 31, 2023

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Industries with the most job postings for Information Technology occupations included *Professional, Scientific, and Technical Services*, and *Transportation Equipment Manufacturing*. The employer with the most job postings was Edward Jones, followed by Boeing and Deloitte.

Skill Profile

Software Engineering is the detailed study of engineering used to design, develop, maintain, test, and evaluate computer software. It heavily uses software configuration management, which is about systematically controlling changes and maintaining the integrity of the configuration and code throughout the system life cycle. Software Engineering is most commonly requested in job ads for *Software Developers*, and *Computer Systems Engineers and Architects*. Employers requesting software engineering in job ads include Boeing and MasterCard.

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Data accessed February 2023.

